PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
PCT-AB04007J	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/JP2004/003598	17.03.2004	24.04.2003		
International Patent Classification (IPC) or national	onal classification and IPC			
Applicant				
JAPAN SCIENCE AND TEC	CHNOLOGY AGENCY			
This report is the international prelin under Article 35 and transmitted to the	ninary examination report, established by this	International Preliminary Examining Authority		
2. This REPORT consists of a total of	_	g this cover sheet.		
3. This report is also accompanied by A	•	g uns cover sheet.		
	to the International Bureau) a total of			
		amended and are the basis for this report and/or ale 70.16 and Section 607 of the Administrative		
1	ede earlier sheets, but which this Authority con	siders contain an amendment that goes beyond		
the disclosure in the Box.	international application as filed, as indicated	in item 4 of Box No. I and the Supplemental		
b (sent to the International.	Bureau only) a total of (indicate type and number	er of electronic carrier(s))		
, containing a sequence listing and/or tables				
related thereto, in computer Section 802 of the Administ		emental Box Relating to Sequence Listing (see		
4. This report contains indications relati	ng to the following items:			
Box No. I Basis of the	∇			
Box No. II Priority	•			
I 🗖	shment of opinion with regard to novelty, inven	tive step and industrial applicability		
		tive step and industrial approachity		
	Box No. IV Lack of unity of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain doc	Box No. VI Certain documents cited			
Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application				
Date of submission of the demand		nia ronost		
Date of submission of the definant	Date of completion of the	iis report		
Name and mailing address of the IPEA/JP	Authorized officer			
The state of the s	Authorized officer			
Facsimile No.	Telephone No.			
	Tolonhono No.			

Translation

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International application No.
PCT/JP2004/003598

Box	No. I	Basis of the report			
1.		regard to the language, this report is based on the internation ated under this item.	al application in the language in which it was filed, unless otherwise		
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
		international search (Rule 12.3 and 23.1(b))			
		publication of the international application (Rule 12.4))		
		international preliminary examination (Rule 55.2 and/o	or 55.3)		
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished				
	Ш	the description:			
		pages	as originally filed/furnished		
		pages*	received by this Authority on		
		pages*	received by this Authority on		
		the claims:			
		nos	as originally filed/furnished		
		nos.*	as amended (together with any statement) under Article 19		
		nos.*	received by this Authority on		
		nos.*			
	\Box	the drawings:			
	ш	·			
		sheets	as originally filed/furnished		
		sheets*	· · · · · · · · · · · · · · · · · · ·		
		sheets*	received by this Authority on		
ı	\sqcup	a sequence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence Listing.		
3.		The amendments have resulted in the cancellation of:			
		the description, pages			
		the claims, nos.			
		the drawings, sheets/figs			
4.			ments annexed to this report and listed below had not been made, since		
		the description, pages			
		the drawings, sheets/figs the sequence listing (specify):			
	any table(s) related to sequence listing (specify):				
<u> </u>	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."		

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Box No. II	I Non-establishment of opinion wi	ith regard to novelty, inventive step and industrial applicability		
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
	the entire international application			
\boxtimes	claims Nos. 13-21		_	
because	e:		l	
\boxtimes	the said international application, or the said claims Nos. 13-21 relate to the following subject matter which does not require an international preliminary examination (specify):			
	Claims 13 to 21 pertain to a method for the			
	treatment of the hu	man body by means of therapy.		
	the description claims or drawings (indica	ate particular elements below) or said claims Nos.		
	are so unclear that no meaningful opinion	-	_	
	the claims, or said claims Nos.	are so inadequately suppor	ted	
	by the description that no meaningful opin	ion could be formed.		
\boxtimes	no international search report has been est	ablished for said claims Nos. 13-21		
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:			
	the written form	has not been furnished	ļ	
	L	does not comply with the standard		
	the computer readable form	has not been furnished		
		does not comply with the standard		
		r amino acid sequence listing, if in computer readable form only, do not comply winex C-bis of the Administrative Instructions.	th the	
	See Supplemental Box for further details.			

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Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty	(N)	Claims	9	YES
			Claims	1-8, 10-12	NO
	Inventiv	e step (IS)	Claims	9	YES
			Claims	1-8, 10-12	NO
	Industria	al applicability (IA)	Claims	1-12	YES
			Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 11-209290 A (Hoechst Marion Roussel Ltd.),
03 August 1999, entire text (Family: none)

Document 2: JP 2001-523644 A (Hoechst Marion Roussel Ltd.), 27 November 2001, entire text

Document 3: JP 2002-508738 A (Pfizer Inc.), 19 March 2002, entire text

Claims 1 to 8 and 10 to 12

In the light of the disclosures in the description and the claims of the present application, it is apparent that the agents for inhibiting the proliferation of vascular smooth muscle, which are set forth in claims 1 to 4, and the agents for enhancing the expression of cycline-dependent kinase complexes, which are set forth in claims 5 to 7, are therapeutic agents against myocardial infarctions.

Meanwhile, document 1 discloses the feature of administering roxithromycin in order to treat myocardial infarctions. Therein, document 1 does not indicate that myocardial infarctions are caused by substances that induce the proliferation of vascular smooth muscle. However, a comparison of the therapeutic agents against myocardial infarctions from the inventions that are set

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

forth in the present application and the therapeutic agents against myocardial infarctions from the inventions that are disclosed in document 1 shows that it is possible to use the therapeutic agents from both inventions in order to treat patients who have suffered myocardial infarctions (i. e. patients whose heart muscles have sustained damage); therefore, it is impossible to differentiate between the therapeutic agents in question as inventions.

As a result, the inventions that are set forth in claims 1 to 8 and 10 to 12 correspond to the inventions that are disclosed in document 1; consequently, the inventions in question lack novelty and do not involve an inventive step.

Claim 9

Documents 1 to 3 do not disclose or suggest prophylactic and/or therapeutic agents against ailments such as arteriosclerosis, which are associated with the proliferation of vascular smooth muscle.

Therefore, the invention that is set forth in claim 9 is novel and involves an inventive step.

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Box	No. VI Certain documents cited			
1.	Certain published documents (Rule 70.10)			
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	JP2004-99604 A	02.04.2004	21.08.2002	
	(EX)			
_				
2.	Non-written disclosures (Rule 70.9)		_	ate of written disclosure
	Kind of non-written disclosure	Date of non-written dis (day/month/year	sclosure referri	ate of written disclosure ng to non-written disclosure (day/month/year)
		(way/monin/yea/		(